

ABSTRACT

[0025] A detector for mounting to an air filter provides a signal if the filter is dirty. The detector has a housing mounted to the air filter. The housing has a cavity with a diaphragm. An upstream air inlet leads from an exterior of the housing to an upstream side of the diaphragm. A downstream air inlet leading from the exterior of the housing to a downstream side of the diaphragm. A stationary electrical contact is stationarily mounted in the cavity and normally spaced from the downstream side of the diaphragm. A movable electrical contact is mounted to the downstream side of the diaphragm for movement therewith. An electrical circuit is connected to the electrical contacts, so that movement of the diaphragm due to a sufficient difference in air pressure between the upstream and downstream air inlets causes the contacts to engage each other and causes the electrical circuit to provide a signal.